

# Notice of Allowability

Application No.

10/733,132

Examiner

Daniell L. Negrón

Applicant(s)

EHRLICH, RICHARD M.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed January 10 2006.
2. ☒ The allowed claim(s) is/are 1-12, 15-18, 21-25, 28-31, and 55-59 (to be renumbered 1-30).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**WAYNE YOUNG**  
**SUPERVISORY PATENT EXAMINER**

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael L. Robbins Reg. No. 54,774 on March 28, 2006.

The application has been amended as follows:

In claim 1, "*...wherein the zig angle at the second end is a chevron angle and the zig angle at the first end is less than the chevron...*" is replaced with ~~–wherein the zig angle at the second end is a chevron angle and the zig angle at the first end is less than the chevron~~ **angle**~~–~~

In claim 21, please replace "*...the zig angle varying along at least a portion of the plurality of zig-bursts...*" is replaced with ~~–the~~ **zag** angle varying along at least a portion of the plurality of **zag**-bursts~~–~~

### *Allowable Subject Matter*

2. Claims 1-12, 15-18, 21-25, 28-31, and 55-59 (to be renumbered 1-30) are allowed.

3. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-7, claim 1 discloses a template pattern for a reference surface of a disk for a hard disk drive having a head connected with a rotary actuator, wherein the template pattern comprises a servo wedge having a second end disposed between the first end and outer diameter of the disk further comprising a plurality of zig-bursts forming a zig angle relative to a plurality of pulses and varying along at least a portion of the plurality of zig-bursts, a plurality of

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zag-bursts forming a zag angle relative to the plurality of pulses being a chevron angle, wherein the zig angle at the second end is a chevron angle and the zig angle at the first end is less than the chevron angle, which is neither taught or an obvious variation of the prior art.

Regarding claims 8-12, claim 8 discloses a template pattern for a reference surface of a disk for a hard disk drive having a head connected with a rotary actuator, wherein the template pattern comprises a servo wedge having a second end disposed between the first end and outer diameter of the disk further comprising a plurality of zig-bursts forming a zig angle relative to a plurality of pulses and varying along at least a portion of the plurality of zig-bursts, a plurality of zag-bursts forming a zag angle relative to the plurality of pulses being a chevron angle, wherein the zig angle at the first end is zero and the zig angle at the second end is chevron angle, which is neither taught or an obvious variation of the prior art.

Regarding claims 15-18, claim 15 discloses a template pattern for a rotatable data storage medium, wherein the template pattern comprises a servo wedge having a first end and a second end further comprising a plurality of zig-bursts forming a zig angle relative to a plurality of pulses and varying along at least a portion of the plurality of zig-bursts, a plurality of zag-bursts forming a zag angle relative to the plurality of pulses being a chevron angle, wherein the zig angle at the first end is zero and the zig angle at the second end is a chevron angle, which is neither taught or an obvious variation of the prior art.

Regarding claims 21-25 and 28-31, claims 21 and 28 discloses a template pattern for a reference surface of a disk for a hard disk drive having a head connected with a rotary actuator, wherein the template pattern comprises a servo wedge a second end disposed between the first

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end and outer diameter of the disk further comprising a plurality of zig-bursts forming a zig angle relative to a plurality of pulses being a chevron angle, a plurality of zag-bursts forming a zag angle relative to the plurality of pulses varying along at least a portion of the plurality of zag-bursts, wherein the zag angle at the first end is zero and the zag angle at the second end is a chevron angle, which is neither taught or an obvious variation of the prior art.

Regarding claims 55-59, claims 55 discloses a template pattern for a hard disk drive having a head connected with a rotary actuator, wherein the template pattern comprises a servo wedge having a first end and a second end further comprising a plurality of zag-bursts forming a zag angle relative to a plurality of pulses and varying along at least a portion of the plurality of zag-bursts, a plurality of zig-bursts forming a zig angle relative to the plurality of pulses being a chevron angle, wherein the zag angle at the second end is a chevron angle and the zag angle at the first end is less than the chevron angle, which is neither taught or an obvious variation of the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Response to Arguments***


4. Applicant's arguments, see response to the previous Office action, filed January 10, 2006, with respect to claims 1-54 have been fully considered and are persuasive. The rejection of claims 1-54 has been withdrawn.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniell L. Negrón whose telephone number is 571-272-7559. The examiner can normally be reached on Monday-Friday (8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne R. Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DLN   
March 28, 2006

  
**WAYNE YOUNG**  
**SUPERVISORY PATENT EXAMINER**